

Title (en)  
Method for determining topology of a network

Title (de)  
Verfahren zur Bestimmung der Topologie eines Netzes

Title (fr)  
Méthode de détermination de topologie d'un réseau

Publication  
**EP 0739110 A3 20030924 (EN)**

Application  
**EP 96102211 A 19960214**

Priority  
US 42594095 A 19950419

Abstract (en)  
[origin: EP0739110A2] A system (222) that monitors neighbor information frames (NIFs) sent by each station (114, 118, 120, 122) within a Fiber Distributed Data Interface (FDDI) network (102) to determine the logical map of the network. After monitoring the NIFs for a period of time sufficient for all stations to have sent a NIF, the system builds and displays a data structure (Fig. 5) containing the logical connections. If the system finds a missing connection within the network, it builds a gap structure within the data structure to display the missing connection. The system also sends a request to all stations on the network for station management information. After receiving this information from each station, the system builds and displays a data structure (Fig. 13) containing the physical connections between each of the stations within the network. <IMAGE>

IPC 1-7  
**H04L 12/24**; **H04L 12/42**

IPC 8 full level  
**G06F 13/00** (2006.01); **H04L 12/24** (2006.01); **H04L 12/433** (2006.01)

CPC (source: EP US)  
**H04L 12/433** (2013.01 - EP US); **H04L 41/12** (2013.01 - US)

Citation (search report)  
• [DX] BHAT SUNIL: "FDDI TOPOLOGY MAPPING", HEWLETT-PACKARD JOURNAL, HEWLETT-PACKARD CO. PALO ALTO, US, vol. 45, no. 5, 1 October 1994 (1994-10-01), pages 97 - 105, XP000471164  
• [DA] BHAT S ET AL: "THE FDDI RING MANAGER FOR THE HP NETWORK ADVISOR PROTOCOL ANALYZER", HEWLETT-PACKARD JOURNAL, HEWLETT-PACKARD CO. PALO ALTO, US, vol. 45, no. 5, 1 October 1994 (1994-10-01), pages 88 - 96, XP000471163

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